ORDER NO. MD0512475C7
A1

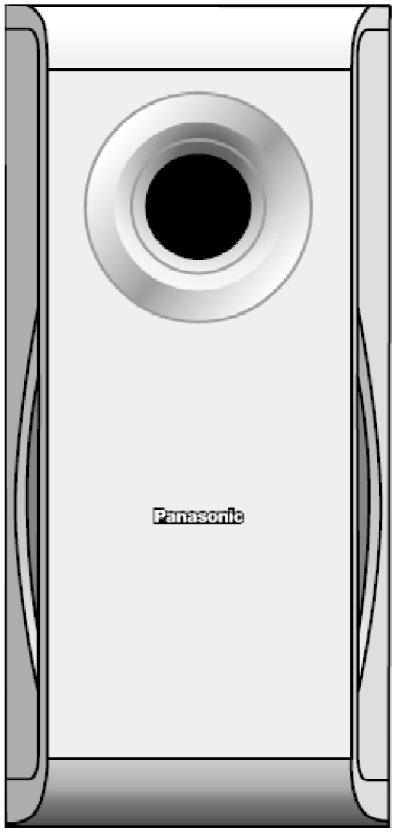
Service Manual

Subwoofer System

SB-W40P

Colour

(S)... Silver Type



SB-W40

SPECIFICATIONS

Specification

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Type	**1 way, 1 speaker system (Bass-ref.)**
Speaker unit	**Impedance 6 Ω**
Woofer	**16 cm (6-1/2”) Cone type**
Input power (IEC)	**220 W (Max)**
Output sound pressure level	**80 dB/W (1.0 m)**
Frequency range	**34 Hz - 220 Hz (-16 dB)**
	38 Hz - 190 Hz (-10 dB)
Dimensions (W x H x D)	**182 mm x 392 mm x 266 mm**
	7-3/16” x 15-7/16” x 10-1/2”
Mass	**3.7 kg (8.2 lb.)**

Notes :

1. Specifications are subject to change without notice. / Mass and dimensions are approximate.
2. Total harmonic distortion is measured by the digital spectrum analyzer.

■ **System : SC-HT40P-S**	**Music Center : SA-HT40P-S**
	Front Speaker : SB-PF40P-S
	Surround Speaker : SB-PS40P-S
	Center Speaker : SB-PC40P-S
	Subwoofer : SB-W40P-S
■ **System : SC-HT40PC-S**	**Music Center : SA-HT40PC-S**
	Front Speaker : SB-PF40P-S
	Surround Speaker : SB-PS40P-S
	Center Speaker : SB-PC40P-S
	Subwoofer : SB-W40P-S
■ **System : SC-HT40GN-S**	**Music Center : SA-HT40GN-S**
	Front Speaker : SB-PF41GN-S
	Surround Speaker : SB-PS41GN-S
	Center Speaker : SB-PC40P-S
	Subwoofer : SB-W40P-S
■ **System : SC-HT40EE-S**	**Music Center : SA-HT40EE-S**
	Front Speaker : SB-PF41GN-S
	Surround Speaker : SB-PS41GN-S
	Center Speaker : SB-PC40P-S
	Subwoofer : SB-W40P-S
■ **System : SC-HT60EE-S**	**Music Center : SA-HT60EE-S**
	Front Speaker : SB-FS61GN-S
	Surround Speaker : SB-FS62GN-S
	Subwoofer : SB-W40P-S
■ **System : SC-HT60GN-S**	**Music Center : SA-HT60GN-S**
	Front Speaker : SB-FS61GN-S
	Surround Speaker : SB-FS62GN-S
	Subwoofer : SB-W40P-S

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System	SC-HT40P/PC-S	SC-HT40GN/EE-S
Music Center System	SA-HT40P/PC-S	SA-HT40GN/EE-S
Speaker System	SB-HT40P-S	SB-HT40GN-S

Speaker System	SB-HT40P-S	SB-HT40GN-S
Satellite Speakers	SB-FSC40P-S	SB-FSC40GN-S
Subwoofer	SB-W40P-S	SB-W40P-S

Satellite Speaker	SB-FSC40P-S	SB-FSC40GN-S
Front Speakers	SB-PF40P-S	SB-PF41GN-S
Surround Speakers	SB-PS40P-S	SB-PS41GN-S
Center Speaker	SB-PC40P-S	SB-PC40P-S

System	SC-HT60EE/GN-S
Music Center System	SA-HT60EE/GN-S
Speaker System	SB-HT60GN-S

Speaker System	SB-HT60GN-S
Satelite Speaker	SB-FSC61GN-S
Subwoofer	SB-W40P-S

Satellite Speaker	SB-FSC61GN-S
Front Speakers	SB-FS61GN-S
Surround Speakers	SB-FS62GN-S
Center Speaker	SB-PC41GN-S

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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Panasonic

1. Assembling and Disassembling

“ATTENTION SERVICER”
Some chassis components may have sharp edges. Be careful when disassembling and servicing.

1. **This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.**
2. **For reassembly after operation checks or replacement, reverse the respective procedures.**
   Special reassembly procedures are described only when required.

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3. **Select items from the following index when checks or replacement are required.**
4. **Refer to the Parts No. on the page of "Parts Location and Replacement Parts List" (Section 5), if necessary.**

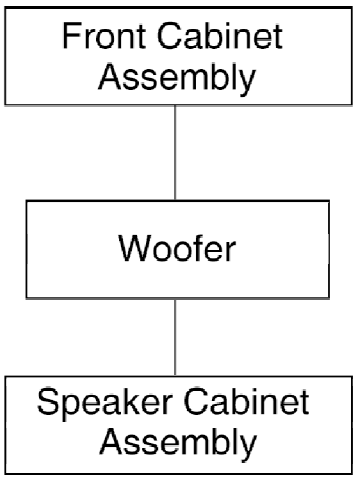
> **Caution:**
>
> Original screws should be used.

Below is the list of disassembly sections

- Disassembly of Front Cabinet Assembly
- Disassembly of Woofer

1.1. Disassembly flow chart

The following chart is the procedure for disassembling the casing and inside parts for internal inspection when carrying out the servicing.
To assemble the unit, reverse the steps shown in the chart as below.



1.2. Disassembly of Front Cabinet Assembly

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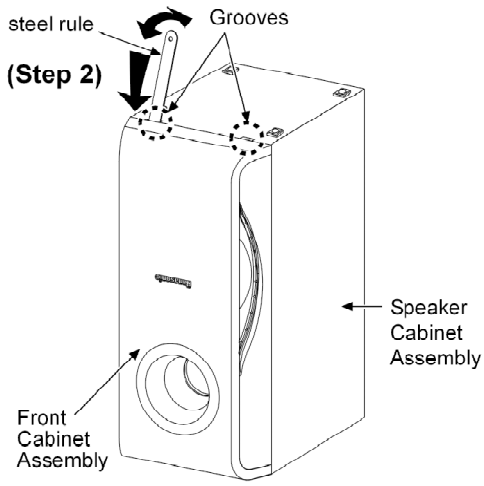
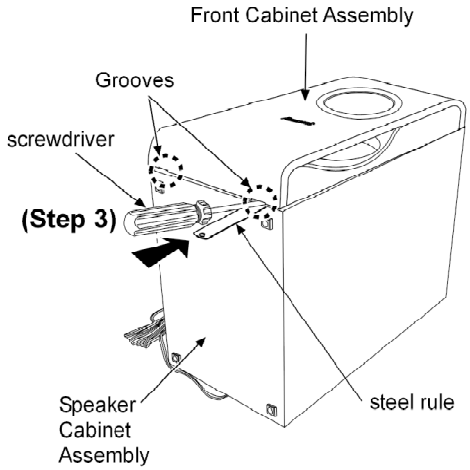
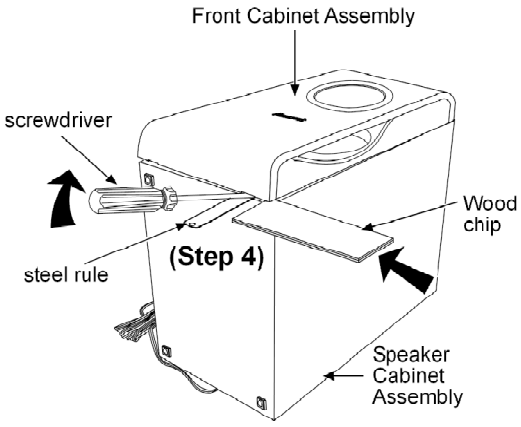


Step 1: Upset the unit as shown above.
Step 2: Insert a steel rule into the grooves of the Speaker unit. Push the steel rule forward and backward as arrow shown.



Step 3: Insert a flathead screwdriver into the grooves as arrow shown. Ensure that the screwdriver is above the steel rule.

Equipment Support
Wood chip: 240 x 50 x 3 mm



Step 4: Use the screwdriver to slightly push up the Front Cabinet Assembly as arrow shown and

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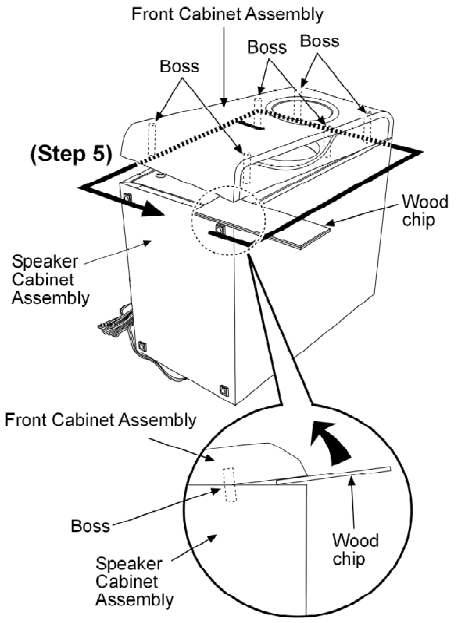
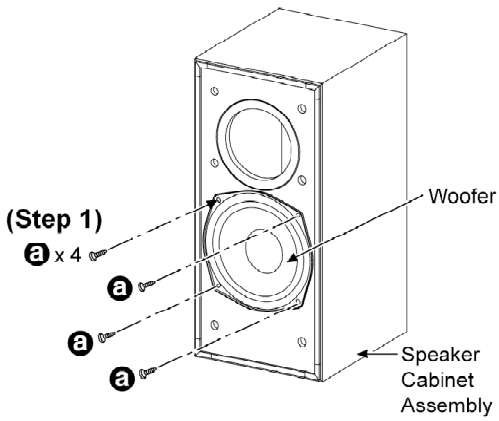
insert the Wood chip.



Step 5: At the boss area push up as arrow shown to open the bosses.
Caution:
Do not exert strong force as it may damage the Front Cabinet Assembly.

1.3. Disassembly of Woofer

Follow (step 1) to (step 5) of item 1.2.



Step 1: Remove all 4 screws from the Woofer.

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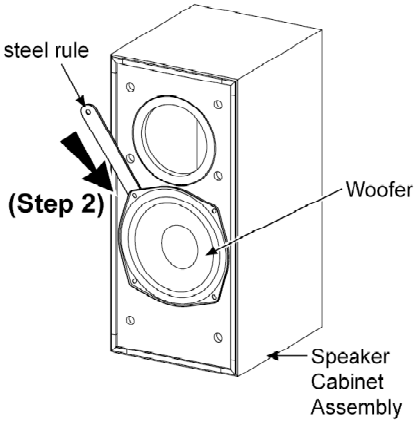
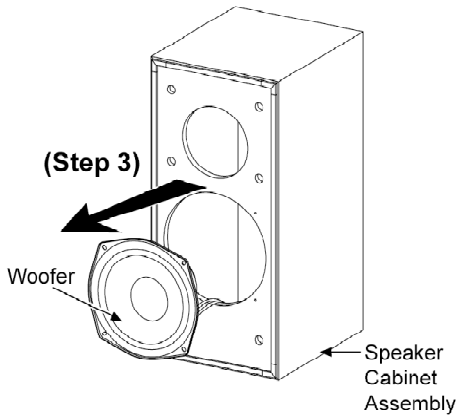
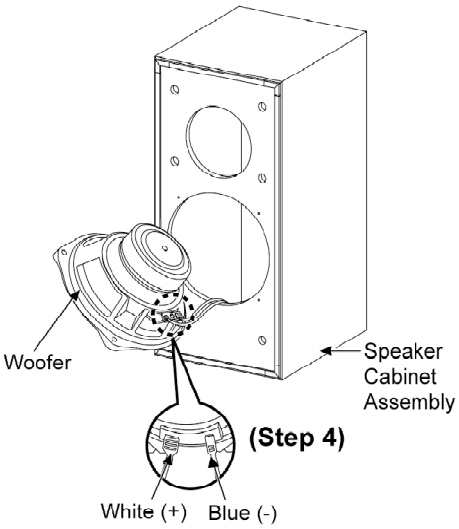


Step 2: Insert a steel rule between the Woofer and Speaker Cabinet Assembly to push out the Woofer.



Step 3: Take out the Woofer unit.



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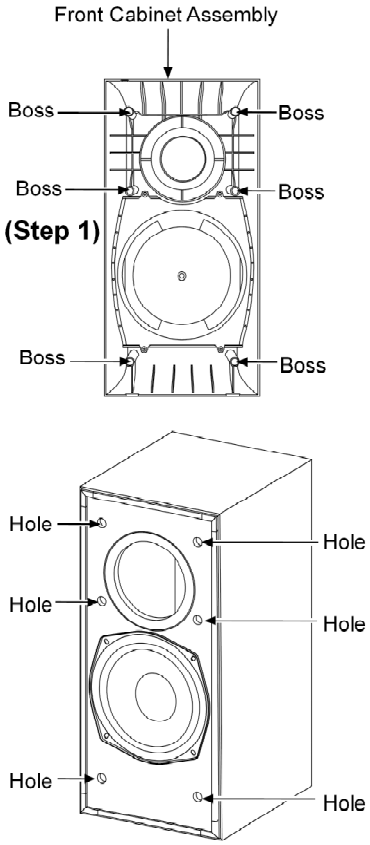
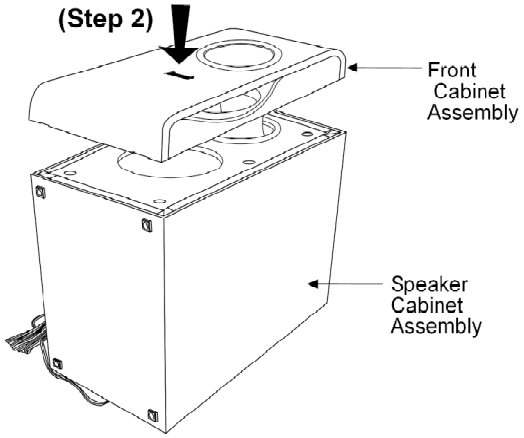
Step 4: Remove the Woofer by detaching the (+) white and (-) blue wires.

1.4. Assembly of Subwoofer Unit



Step 1: Scrape off using the scriber and clean up the remaining glue at the 6 bosses and 6 holes as arrow shown and replace with the normal glue.



Step 2: Fix the Front Cabinet Assembly firmly back to the Speaker Cabinet Assembly.

2. Connection of the Speaker Cables

- Be sure to connect speaker cables before connecting the AC

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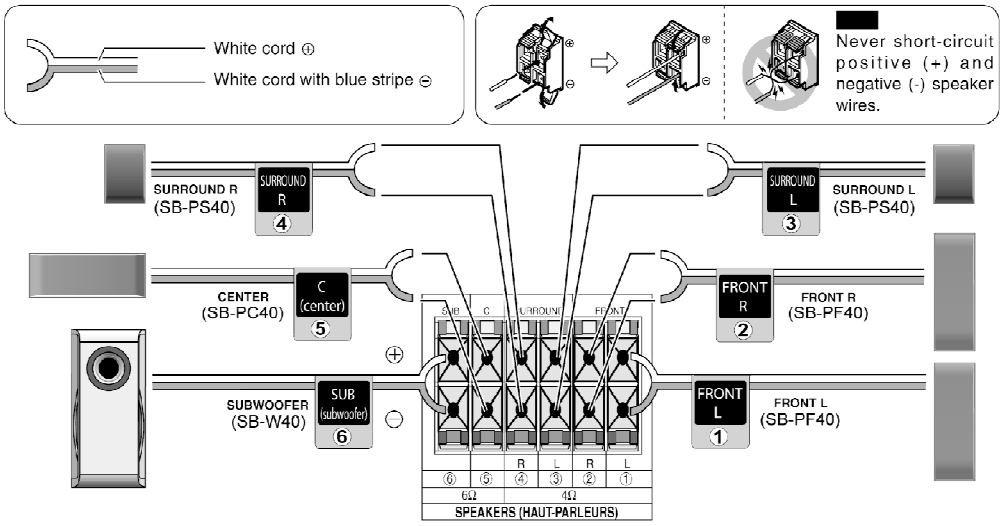
power supply cord.

- The load impedance of any speaker used with this unit must be 6 Ω .

- Be sure to connect the cable from the right speaker to the right terminal and the cable from the left speaker to the left terminal.

1. Strip off the outer covering, and twist the center conductor. Make sure the bare ends of the wires are not unravelled. (If they are, twist them tight again.)

2. Insert the wire to the rear panel of the unit and close the lever.



Notes :

- To prevent damage to circuitry, never short-circuit positive (+) and negative (-) speaker wires.

- Be sure to connect only positive (white) wires to positive (+) terminals and negative (blue) wires to negative (-) terminals. Incorrect connection can damage the speakers.

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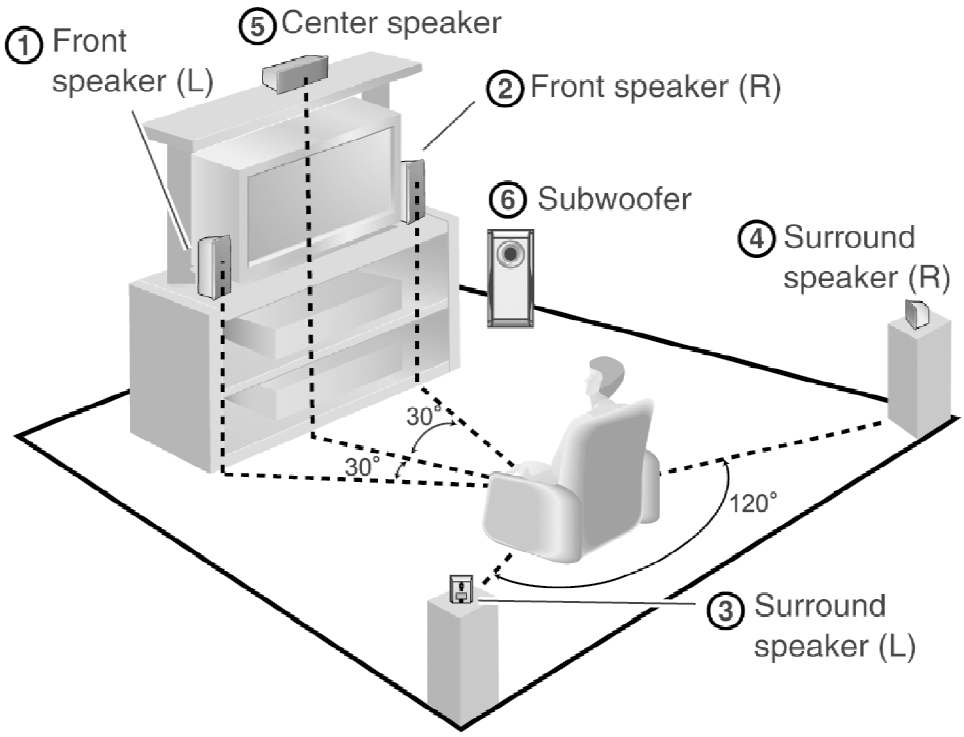

Positioning for best effect

How you set up your speakers can affect the bass and the sound field.

Note the following points.

- Place the speakers on flat secure bases.

- Placing speakers too close to floors, walls, and corners can result in excessive bass. Cover walls and windows with a thick curtain.

Note

Keep your speakers at least 10 mm (13/32") from the system for proper ventilation.

Place the front, center, and surround speakers at approximately the same distance from the seating position. The angles in the diagram are approximate.

Front speakers (left, right)

Place on the left and right of the TV at seated ear height so that there is good coherency between the picture and sound.

Center speaker

Place underneath or above the center of the TV. Aim the speaker at the seating area.

Surround speakers (left, right)

Place on the side of or slightly behind the seating area, higher than ear level.

Subwoofer

The subwoofer can be placed in any position as long as it is at a reasonable distance from the TV.

Note that some experimentation can yield the smoothest low frequency performance. Placement near a corner can increase the apparent output level, but can result in unnatural bass.

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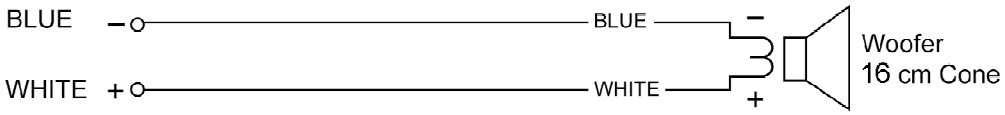
Caution

- **The main unit and supplied speakers are only to be used as indicated in this manual. Failure to do so may lead to damage to the receiver and/or the speakers, and may result in the risk or fire. Consult a qualified service person if damage has occurred or if you experience a sudden change in performance.**
- **Do not attempt to attach these speakers to walls using methods other than those described in this manual.**

3. Connection of Wiring Diagram



4. Exploded view

4.1. Cabinet Parts Location

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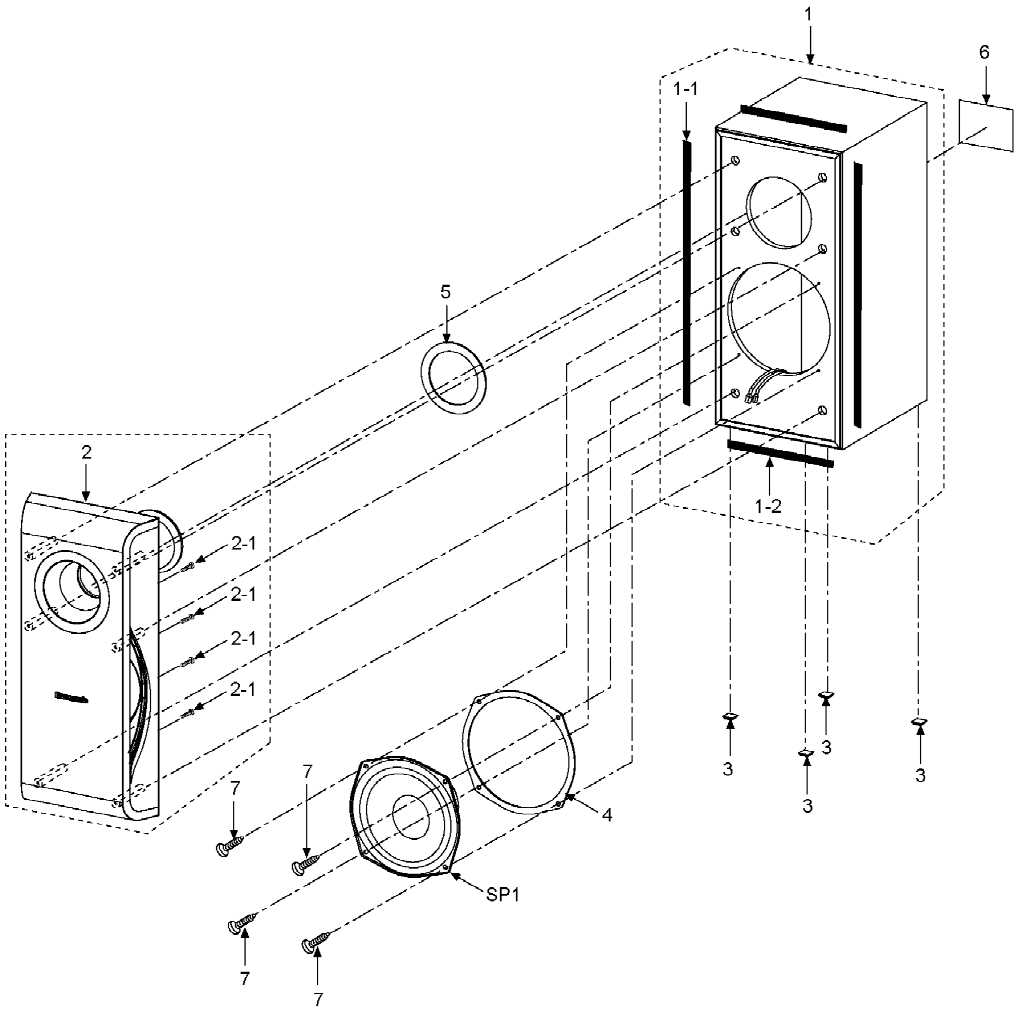

4.2. Packaging

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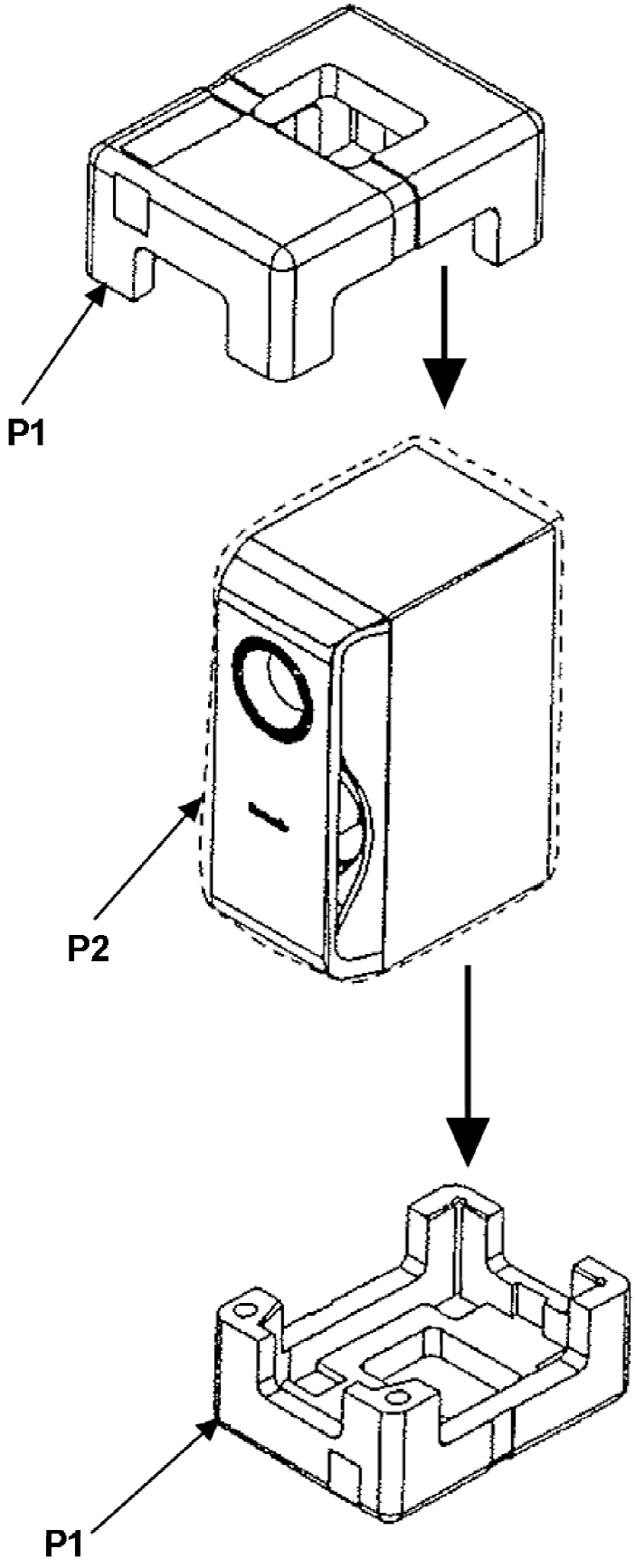

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5. Replacement Parts List

Notes :

- Important safety notice :

When replacing any of these components, be sure to use only manufacturer's specified parts shown in the parts list.

- [M] markings in the Remarks columns indicates parts supplied by PAVCSG.

Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS	
1	RYQX0230-J	SPEAKER CAB. ASS'Y	[M]
1-1	RMFX0046-J	HIMELON (LONG)	[M]
1-2	RMFX0047-J	HIMELON (SHORT)	[M]
2	RYBX0126-SJ	FRONT CABINET ASS'Y	[M]
2-1	XTB3+10GFJ	SCREW	[M]
3	RKA0072-KJ	LEG CUSHION	[M]
4	RMQX0174-J	EVA PACK (WOOFER)	[M]
5	RMQX0166-J	EVA PACK (PORT)	[M]
6	RGNV0181-K	SPEC LABEL	[M]
7	XTB4+14AF-K	SCREW	[M]
		PACKING MATERIALS	
P1	RPNV0099	POLYFOAM	[M]
P2	RPFX0157-J	MIRAMAT BAG	[M]
		SPEAKER	
SP1	EAS16PL702C	WOOFER	[M]

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